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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/463,565	04/21/2001	Tatsuya Hashimoto	MAT-7886US	6486
7	10/31/2003		EXAM	INER
Lawrence E Ashery			WINTER, GENTLE E	
Ratner & Prest	ia			
Suite 301 One Westlakes Berwyn			ART UNIT	PAPER NUMBER
PO Box 980			1746	
Valley Forge,	PA 19482-0980		DATE MAILED, 10/21/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Advisory Action	09/463,565	HASHIMOTO ET AL.
Advisory Action	Examiner	Art Unit
	Gentle E. Winter	1746
The MAILING DATE of this communication a	appears on the cover sheet w	ith the correspondence address
THE REPLY FILED 15 October 2003 FAILS TO PLATherefore, further action by the applicant is required to inal rejection under 37 CFR 1.113 may only be either condition for allowance; (2) a timely filed Notice of Apexamination (RCE) in compliance with 37 CFR 1.114	to avoid abandonment of this r: (1) a timely filed amendme peal (with appeal fee); or (3)	application. A proper reply to a nt which places the application in
PERIOD FOR	REPLY [check either a) or t	o)]
a) The period for reply expires 3 months from the mailing		
b) The period for reply expires on: (1) the mailing date of no event, however, will the statutory period for reply ex ONLY CHECK THIS BOX WHEN THE FIRST REPLY 706.07(f).  Extensions of time may be obtained under 37 CFR 1.136(a). ee have been filed is the date for purposes of determining the period of the period of the expiration of the content of th	where later than SIX MONTHS from the WAS FILED WITHIN TWO MONTHE The date on which the petition unduring the corresponding of the shortened statutory period of Coffice later than three months after	he mailing date of the final rejection.  HS OF THE FINAL REJECTION. See MPEP  er 37 CFR 1.136(a) and the appropriate extensio  ding amount of the fee. The appropriate extensic  for reply originally set in the final Office action: or
1. A Notice of Appeal was filed on Appella 37 CFR 1.192(a), or any extension thereof (37		
2. $igtimes$ The proposed amendment(s) will not be entere	ed because:	·
(a) X they raise new issues that would require for	urther consideration and/or so	earch (see NOTE below);
(b) they raise the issue of new matter (see No	ote below);	
<ul><li>(c)</li></ul>	on in better form for appeal b	by materially reducing or simplifying the
(d)  they present additional claims without car	nceling a corresponding numl	ber of finally rejected claims.
NOTE: See Continuation Sheet.		
<ol><li>Applicant's reply has overcome the following re</li></ol>	ejection(s):	
<ol> <li>Newly proposed or amended claim(s) wo canceling the non-allowable claim(s).</li> </ol>	ould be allowable if submitted	I in a separate, timely filed amendment
5.  ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ reques application in condition for allowance because	t for reconsideration has bee : <u>See Continuation Sheet</u> .	n considered but does NOT place the
The affidavit or exhibit will NOT be considered raised by the Examiner in the final rejection.	because it is not directed SO	LELY to issues which were newly
7. For purposes of Appeal, the proposed amendmental explanation of how the new or amended claim	nent(s) a) will not be entere s would be rejected is provide	ed or b)⊡ will be entered and an ed below or appended.
The status of the claim(s) is (or will be) as follows:	ws:	
Claim(s) allowed:		
Claim(s) objected to:		
Claim(s) rejected:		
Claim(s) withdrawn from consideration:		
	_ is a) ☐ approved or b) ☐	disapproved by the Examiner.
B. The proposed drawing correction filed on		
<ul><li>∃. The proposed drawing correction filed on</li><li>∃. Note the attached Information Disclosure State</li></ul>	ment(s)( PTO-1449) Paper N	lo(s)

Continuation of 2. NOTE: Changing dependencies necessitates a new search, and adding new claims would necessitate new grounds of rejection.

Continuation of 5. does NOT place the application in condition for allowance because: Applicant argued: Carlson does not explicitly state on which side of the cathode the layer was coated.

However, for the layer to function as a separator, its intended purpose (column 3, lines 34-40), it must be coated onto the layer of cathode material, not onto aluminum surface of the opposite side of the aluminum foil substrate. Thus, "cathode coating layer" refers to the layer of cathode active material on the aluminum substrate. This conclusion is further supported by claim 62 In which the substrate and the cathode coating layer are separate elements of the claim. The boehmite sol is coated onto the cathode coating layer, not onto the substrate. See also, Carlson, column 9, lines 31-32 ("the separator is coated directly onto tile cathode layer").

Applicants' claims recite a layer on a surface on the electrode plate having thereon an oxide layer formed by boehmite treatment. In Carlson, the boehmite layer is on the cathode active material, not onto the aluminum substrate (electrode plate). Thus, this limitation of applicants' claims is not met. For this reason, the rejection of claim 1 as anticipated by Carlson should be withdrawn.

It is noted that claim 1 is directed to an apparatus. Structural limitations are where patentability resides in apparatus claims. That a particular substrate is to be used as a cathode, or which side of the cathode is coated is relevant only to the extent that the same imparts structure. Applicant has provided a definition of "electrode active material" but has not placed the definition in the claim. What is the "chemically reactive material in either of the electrodes that participates in the charge and discharge reactions."? Or would Applicant prefer "Ān energy-storing material, such as lead oxide, used in plates of a storage battery."? Why is Applicants' definition of "electrode active layer" superior to the definition provided by the Office, and taken from the Nikaido patent?

In support of this rejection, the Office also asserts, without support, that "aluminum inherently forms an oxide layer." Paper 13, page 4, lines 1-2. While the surface of aluminum metal may form a thin film of aluminum oxide under ambient conditions, Applicants' claim 1 does not recite an oxide layer. Applicants' claim 1 recites an "oxide layer being formed by applying a boehmite treatment to the electrode plate surface," i.e., a layer of boehmite (hydrated aluminum oxide),

The Office has neither asserted nor provided any evidence that a layer of hydrated aluminum oxide forms on an aluminum surface under ambient conditions. Further, claims 3 and 4 each recite a thickness range for the boehmite layer. The Office has neither asserted nor provided any evidence that the thickness any layer of aluminum oxide that may form on an aluminum surface under ambient conditions falls within the thickness range recited by these claims. The Office is respectfully requested to provide such evidence or it will be concluded that none exists.

Notwithstanding the above arguments, hydrated aluminum oxide is not what is claimed. Rather "oxide" is what is claimed. Applicants' arguments are drawn to limitations not in the claims.

With respect to statements to the effect of "[T]he Office is respectfully requested to provide such evidence or it will be concluded that non exists." Applicants' are always free to draw conclusions. Facts are not diminished or enhanced by drawing conclusions. This Examiner relies on the prosecution history, including all the references, and the facts which are therein. It is noted that Applicants' have not taken the position that oxide does not from on aluminum when the same is exposed to air. More specifically, as to claim 3, disclosing that the oxide layer has a thickness of 0.5 microns-5 microns. The boehmite layer is disclosed to have a range of 1-25 and 5-15 microns, thus covering most of the claimed range. See e.g. column 4, lines 3-9.

The balance of the argments are fully addressed in the prior Official actions.

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